

3/5/2 (Item 1 from file: 352)

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Stereoselective ring-closure of d-citronellal to l-isopulegol - by reacting with zinc halide in solvent

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Number of Countries: 001 Number of Patents: 002

Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Week
JP 53116348	A	19781011				197846 B
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Priority Applications (No Type Date): JP 7730059 A 19770318

Abstract (Basic): JP 53116348 A

Stereoselective ring-closure of d-citronellal to l-isopulegol is effected by reacting d-citronellal with Zn halide in a solvent. Solvent is e.g. satd. or unsatd. opt. halogenated hydrocarbon. Zn halide is e.g. ZnCl₂, ZnBr₂ or ZnI₂. The reaction temp. is e.g. 0-50 degrees C.

High purity (>95%) prod. is obtd. In an example, a dispersion of ZnCl₂ in benzene was added to a soln. of d-citronellal in benzene at 10 degrees C. Removal of the solvent, after stirring, yielded l-isopulegol with b.pt. 58-59 degrees C./5 mmHg of purity >90%.

Title Terms: STEREOSELECTIVE; RING; CLOSURE; CITRONELLAL; ISOPULEGOL; REACT ; ZINC; HALIDE; SOLVENT

Derwent Class: D23; E15

International Patent Class (Additional): B01J-027/06; C07C-029/56;

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